Indiana Broadband

A little bit about myself

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Broadband Mapping

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- **Map Indiana Broadband**
- Start: October 2009
- End: December 2014
- Total Grant Award: $3.3 mil
- Goals:
  - By census blocks, show:
    - Service provider name
    - Technology used
    - Advertised speed (up and downstream)
  - Create GIS files to depict availability of wireless broadband

Broadband Mapping

- In April 2014, IOT delivered the 9th iteration of Indiana's Broadband Map data to NTIA.
- To Date:
  - 122 Internet Providers
    - 64 Wireline Providers
    - 58 Wireless Providers
- October 2014: the FINAL delivery to NTIA (National Telecommunications and Information Administration)
- December 31, 2014: End of National BB Map Project

State Comparison – Wired Line

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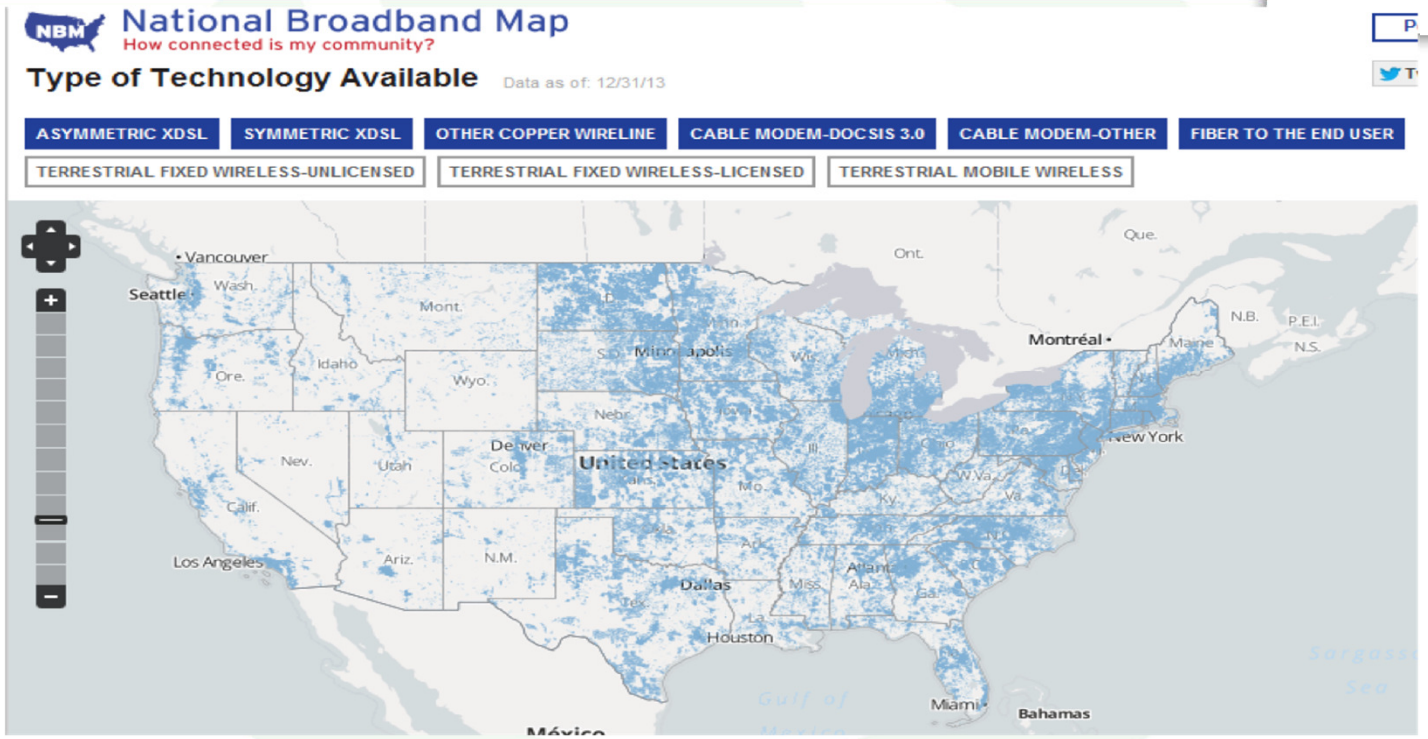

State Comparison - Wireless

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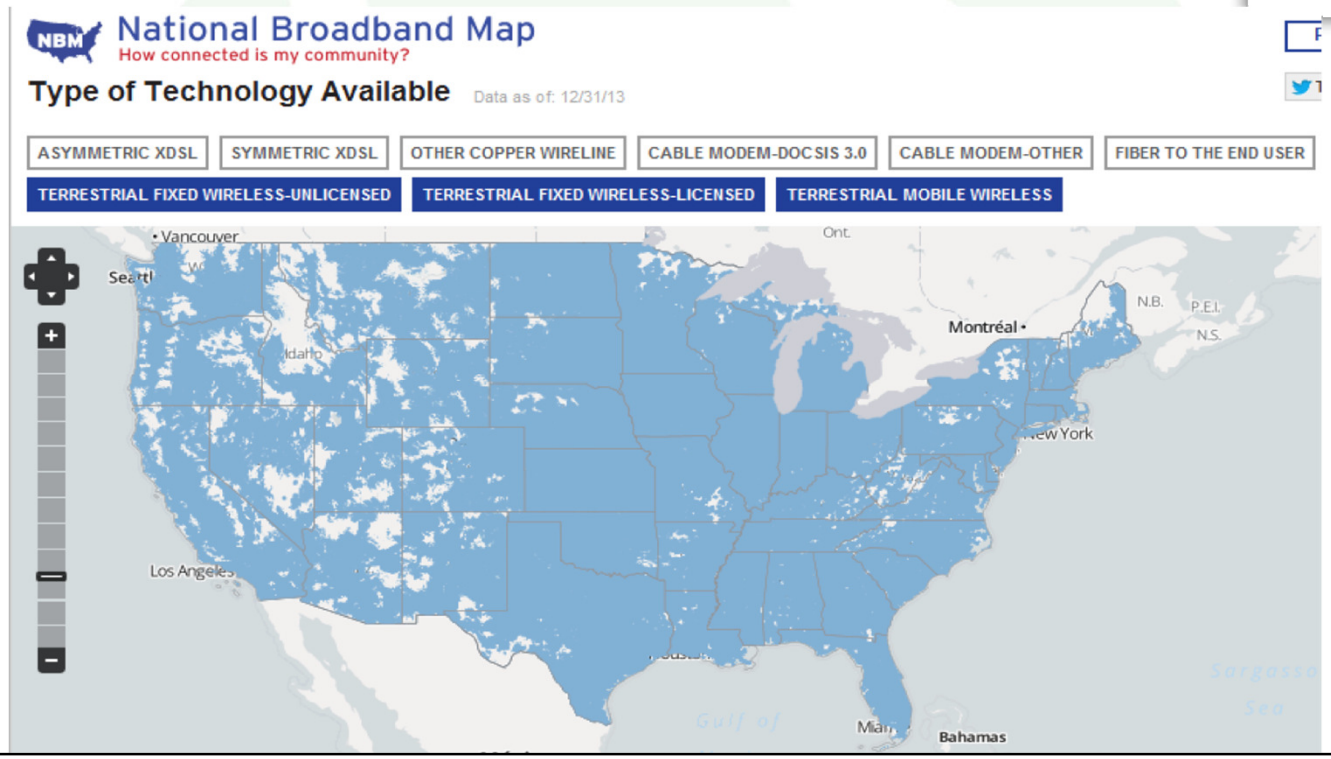

Max Advertised Speed Wired

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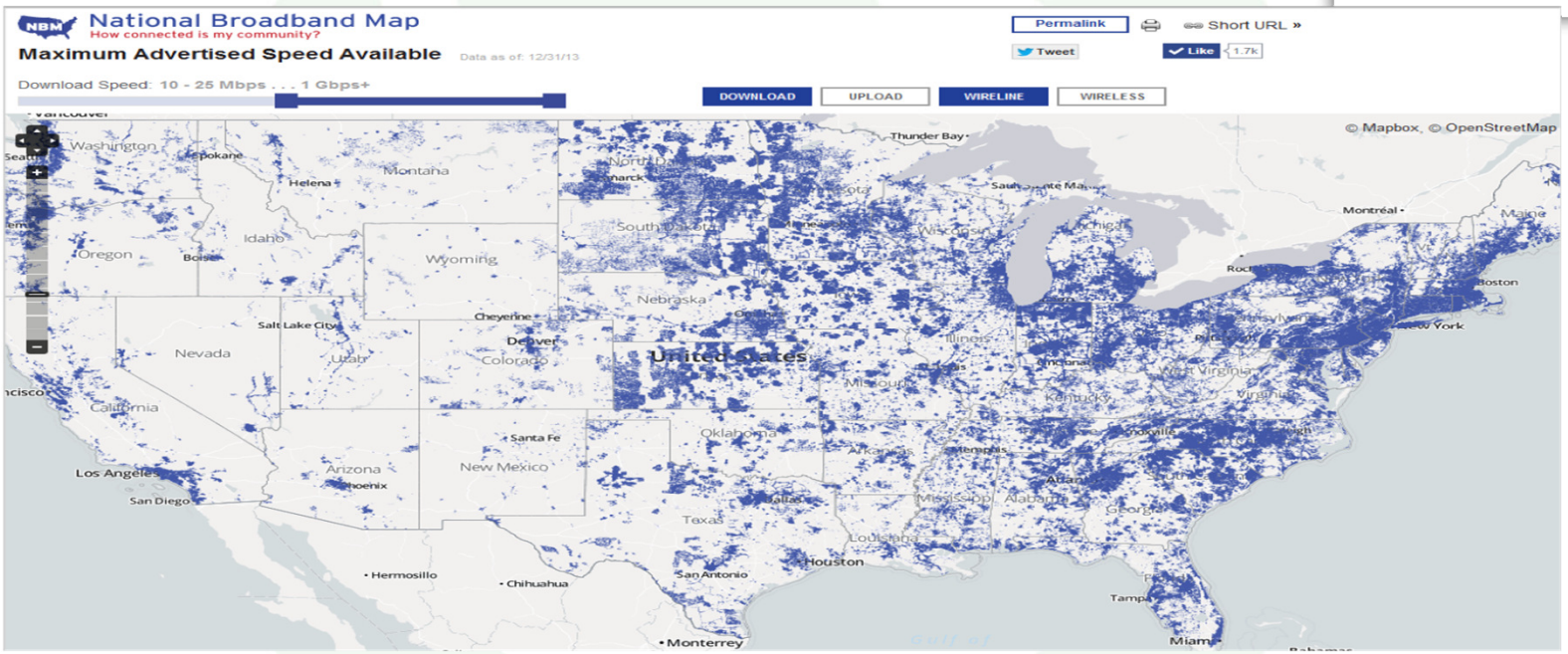

Max Advertised Speed Wireless

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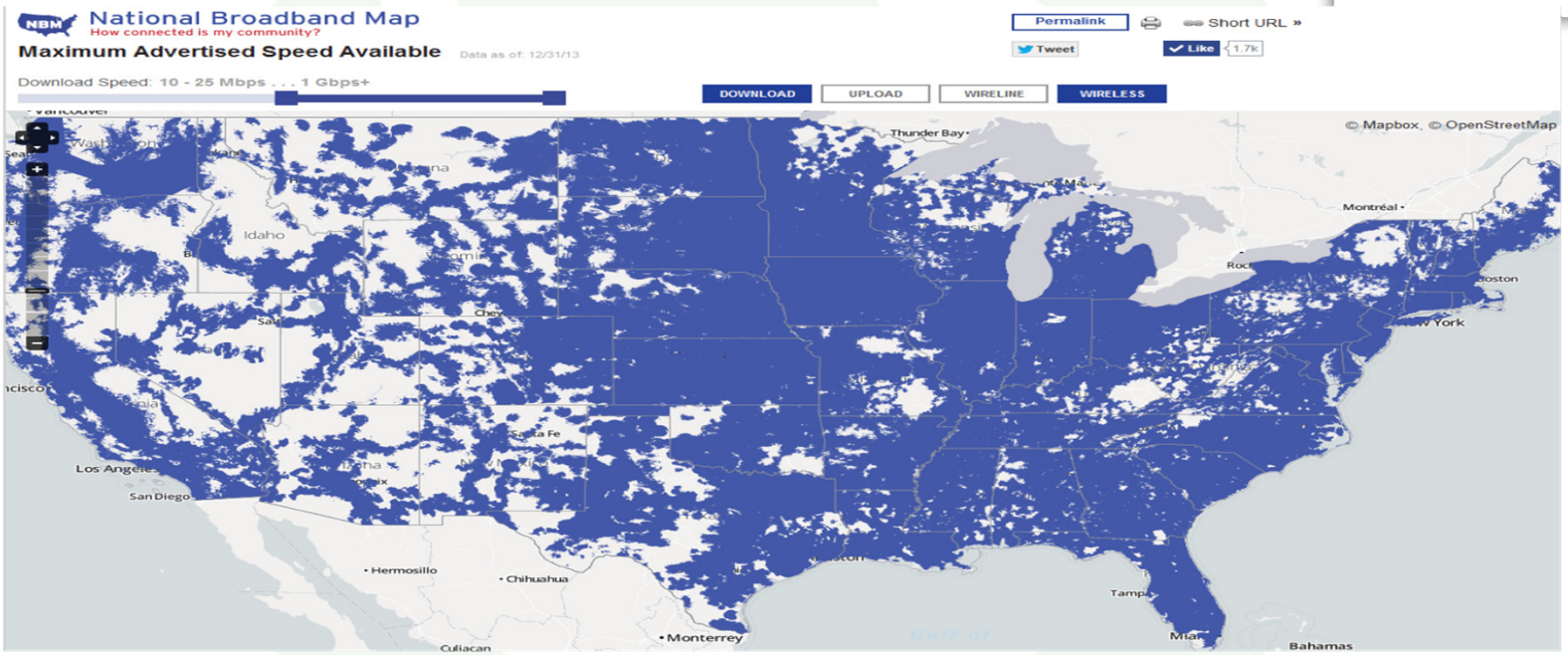

Indiana Summary Wired Speed

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Wireline

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Speed	Percent Population	Nationwide
Dn>3Mbps Up>768kbps	92.7%	93.1%
Download > 3Mbps	95.6%	93.9%
Download > 6Mbps	93.2%	92.7%
Download > 10Mbps	90.1%	91.3%
Download > 25Mbps	85.4%	82.8%
Download > 50Mbps	81.6%	80.1%
Download > 100Mbps	71.2%	56.7%
Download > 1Gbps	35.2%	8.9%

Source API Call

Indiana Summary Wireless Speed

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Wireless

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Speed	Percent Population	Nationwide
Dn>3Mbps Up>768kbps	99.0%	97.9%
Download > 3Mbps	99.0%	97.9%
Download > 6Mbps	97.9%	95.9%
Download > 10Mbps	96.8%	95.1%
Download > 25Mbps	0.0%	6.4%
Download > 50Mbps	0.0%	4.4%
Download > 100Mbps	0.0%	3.0%
Download > 1Gbps	0.0%	0.1%

Source API Call

Indiana Summary Technology

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Technology	Percent Population	Nationwide
DSL	93.6%	88.8%
Fiber	42.8%	25.2%
Cable	84.3%	88.0%
Wireless	99.8%	99.0%
Other	0.0%	0.0%

Source API Call

Indiana Summary Wired Providers

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Number of Internet Providers

Wireline | Wireless

#	Percent Population	Nationwide
0	2.6%	3.3%
1	7.8%	8.9%
2	20.7%	32.0%
3	22.8%	35.6%
4	21.5%	14.3%
5	14.5%	4.1%
6	6.4%	1.3%
7	2.8%	0.4%
8+	0.9%	0.2%

Source API Call

Indiana Summary Wireless Providers

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Number of Internet Providers

Wireline | **Wireless**

#	Percent Population	Nationwide
0	0.0%	0.2%
1	0.3%	0.7%
2	1.3%	3.2%
3	5.1%	6.3%
4	14.9%	22.6%
5	41.9%	32.1%
6	21.9%	16.2%
7	11.3%	9.8%
8+	3.3%	9.0%

Source API Call

Mapping Results

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See results at:

www.indianabroadbandmap.com

www.indianamap.org

www.broadbandmap.gov

Data Sharing

The Indiana Geographic Office joined with other GIS partners to develop and publish four new statewide geographic data layers using existing county data: land parcels, address points that connect a street address with a geographic coordinate, street centerlines with street name and address ranges, and local administrative boundaries such as school and election districts.

- Address Points
- Street Centerlines
- Land Parcels
- Administrative Boundaries

90 Participating Counties

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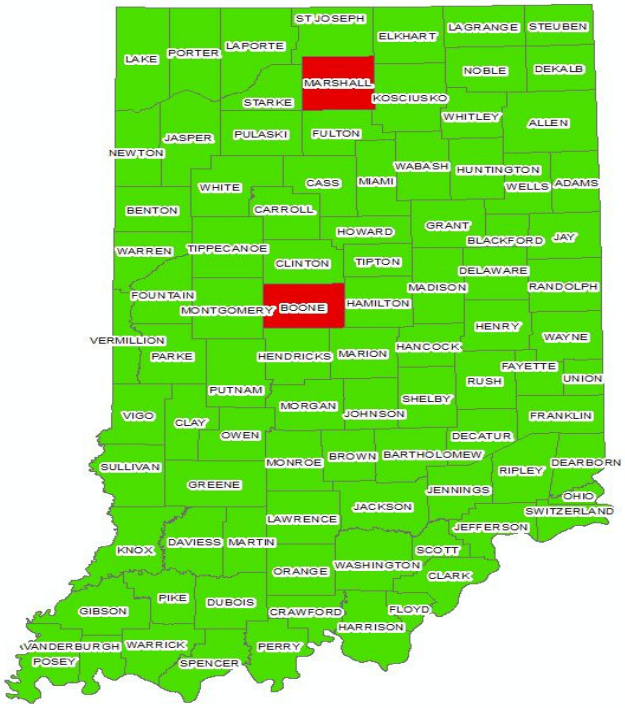

How Does it Benefit Public Safety

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The true value of the statewide data sharing initiative was revealed recently when Clark County needed to respond quickly to the March 2012 tornados that devastated parts of southern Indiana. “We wanted to be able to quickly produce field maps and other geospatial data products to help our community, the Indiana Department of Homeland Security, and FEMA understand and best respond to the rapidly changing situation in our county,” said Vicky Kent Haire, Clark County Assessor. “Having accurate land parcels, road centerlines, and other data already integrated in statewide data layers before the event saved a lot of time in a situation in which every minute was critical.”

How Does it Benefit FirstNet

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- These accurate GIS maps will allow us to provide quality information for coverage and tower placement.
- They will give us a leg up in understanding what connectivity be it type or provider is available to an area we have or will need to place a to tower in.

What else are we doing?

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- The Lt. Governor has established the Rural Broadband Working Group
  - Group is comprised of state and local government
  - Private sector internet and fiber providers (AT&T, Verizon, Comcast)
  - Utilities (REMC)
  - Experts from major universities (Ball State, IU)
  - Private sector entities with interest in rural broadband (Farm Bureau)

What is the RBWG Looking at?

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- Standardization
  - Permitting
  - Zoning
  - Regulations
- Expansion of data sharing
  - More data down to locations more accurate than census block
- Simplification of access
  - Make the state broadband map a better way to access carriers for service
- Education
  - Ensure public is aware of programs for reduced cost broadband
- Incentives
  - Find ways to incentivize carriers to bring their services to areas where there aren't enough customers for a short term return on investment

Questions

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